FIG 1 is a block diagram that shows a configuration of an auger type ice making machine provided with a control device according to Embodiment 1 of this invention,

FIG 2 is a partially cutaway side view that shows a configuration of an ice making portion of the auger type ice making machine,

FIGS. 3 and 3b are timing charts that show motor current in Embodiment 1 during low voltage input and during high voltage input, respectively,

FIG 4 is a block diagram that shows a configuration of an auger type ice making machine provided with a control device according to Embodiment 2,

FIG 5 is a flowchart that shows operation of Embodiment 2,

FIGS. 6 to 8 are block diagrams that show a configuration of an auger type ice making machine provided with a control device according to Embodiments 3 to 5, respectively,

FIG 9 is a perspective view that shows a configuration of a rotational speed detector used in Embodiment 5,

FIG 10 is a flowchart that shows operation of Embodiment 5,

FIGS. 11 to 13 are block diagrams that show a configuration of an auger type ice making machine provided with a control device according to Embodiments 6 to 8, respectively, and

FIGS. 14a and 14b are timing charts that show motor current of a geared motor during low voltage input and during high voltage input, respectively.

## DETAILED DESCRIPTION OF THE INVENTION

Embodiments of this invention are explained below based on the appended drawings.

## 25 Embodiment 1

FIG 1 shows a configuration of an auger type ice making machine provided with a control device according to Embodiment 1 of this invention. The auger type ice making machine has a refrigeration casing 1. An evaporation pipe 2 is wrapped around an outer circumferential surface of the refrigeration casing 1, and an auger 3 used for removing ice and having a helical blade is supported in an inner portion of the refrigeration casing 1. The auger 3 is rotated by a DC brushless geared motor 4, for example.

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